

AFCAT 605 Neutral Cure Silicone

Specification Data



DESCRIPTION

AFCAT 605 Neutral Cure Silicone is a non-corrosive, single-component, oxime-cured silicone sealant and/or adhesive.

APPLICATIONS

This product is a general-purpose compound, which is used most frequently within the window and door manufacturing industry as glazing or structural back-bedding. AFCAT 605 Neutral Cure Silicone is a single-component, high-solid, low-odor material, which cures to a medium modulus, flexible, durable rubber-like solid. AFCAT 605 Neutral Cure Silicone will develop primerless adhesion to most common construction substrates, and the neutral cure is compatible with most materials.

STANDARDS

Meets or exceeds the performance of characteristics of ASTM C-920, TT-S-001543A, and TT-S-230C.

INSTALLATION

As with all single component materials, work life and cure times of AFCAT 605 Neutral Cure Silicone is dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples prior to full-scale production.

AVAILABILITY

AFCAT 605 Neutral Cure Silicone is available in 10 ounce cartridges.

STORAGE

AFCAT 605 Neutral Cure Silicone has a shelf life of eighteen (18) months from the date of manufacture when stored in the original, unopened container at, or below, 75°F.

PRECAUTIONS

Consult and obey all applicable local, state and federal regulations for disposal of solvent and silicone waste. For additional information consult product S.D.S.

LIMITATIONS

Not recommended for surfaces that are to be painted. Not recommended for joints continuously submerged under water.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range Type I – Class 35	Performance Range Type II – Class 50
Appearance		Translucent Paste	Paste (Various Colors)
Viscosity	Brookfield #7 @ 10 rpm	3,500 – 7,000 poises	4,500 – 8,000 poises
Extrusion Rate	1/8" Orifice @ 50 psi	30 – 80 grams/minute	30 – 80 grams/minute
Skin Over Time	3/8" @ 50% RH & 77°F	5 - 10 minutes	5 - 10 minutes
Through Cure	3/8" @ 50% RH & 77°F	48 hours (14 days for OEM window applications)	48 hours (14 days for OEM window applications)

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value Type I – Class 35	Typical Value Type II – Class 50
Specific Gravity		1.00 – 1.05	1.15 – 1.25
Tensile Strength	ASTM D412	140 – 200 psi	170 – 220 psi
Elongation	ASTM D412	500 – 650%	800 – 1000%
Tear Resistance	ASTM D624	30 – 35 pli	30 – 35 pli
Shore Hardness	ASTM D2240	20 +/- 5	25 +/- 5
Service Temperature		-40°F to 400°F (-40°C to 204°C)	-40°F to 400°F (-40°C to 204°C)
Joint Sealant Designation	ASTM C920	Type S Grade NS Class 35, see pg. 2 Use NT, M, G, A, O	Type S Grade NS Class 50, see pg. 2 Use NT, M, G, A, O
Adhesion Glass Aluminum Vinyl	ASTM D903	12 – 15 pli 10 – 14 pli 12 – 15 pli	12 – 15 pli 10 – 14 pli 12 – 15 pli

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

ADDITIONAL INFORMATION

We believe that the information provided is a true and accurate description of the typical characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.